

APPLICANT(S): DAVID, Ofer et al.
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AMENDMENTS TO THE CLAIMS

Please add or amend the claims to read as follows, and cancel without prejudice or disclaimer to resubmission in a divisional or continuation application claims indicated as cancelled:

1. (Currently Amended) A system for handling light that is amenable for intensification by an Image Intensifier, and wherein the system includes -

~~a light regulating-regulator~~ means ~~for-adapted to regulating-regulate~~ light intensity, wherein said light ~~regulating-means-are~~ regulator is either positioned externally to said image intensifier at the ~~a~~ focal plane of the light to be intensified, or placed internally at the ~~a~~ focal plane of said image intensifier before the photo sensitive area of said image intensifier; and a ~~control-and-feedback-circuit that includes-comprising~~ an image sensor, wherein said image sensor is capable of detecting ~~the-zones with-of~~ intensely bright light areas in an acquired image and said circuit is coupled to an image processing-means processor that relates the locations of said zones with ~~intensely bright light areas that where detected by said image sensor to the~~ respective areas on said light regulating-means or, in a manner enabling selective operation of said respective areas on said light regulating-means ~~or at those areas~~, so that image received from said image intensifier ~~it can is influenced the image received from said image intensifier~~; and

wherein said system is characterized by -

said light regulating-means or being a transmissive MEMS component.

2. (Currently Amended) The system for handling light that is amenable for intensification by an Image Intensifier according to claim 1, wherein -

said system is characterized by implementing a reflective MEMS component as said light regulating-means or instead of using said transmissive MEMS, and wherein -
said control and feedback circuit drives in addition said image intensifier to operate in a gating mode, in order to time the light intensifying action of said image intensifier to start upon the specific time slot that was essentially completed, of deflecting the light rays emanating from the intensely bright light areas away from the input plane of said image intensifier.

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3. (Original) The system for handling light that is amenable for intensification by an Image Intensifier according to claim 1, wherein -
said transmissive MEMS component is mounted as an integral part inside said image intensifier.

4. (Original) The system for handling light that is amenable for intensification by an Image Intensifier according to claim 1, wherein -
said image sensor that detects the zones with intensely bright light areas is a CCD / CMOS camera.

5. (Currently Amended) The system for handling light that is amenable for intensification by an Image intensifier according to claim 4, wherein -
said camera is located so that ~~it~~ said camera can record/shoot items in parallel to the line of sight of said image intensifier and receives, independently, reflected light signals from the area under surveillance.

6. (Original) The system for handling light that is amenable for intensification by an Image intensifier according to claim 4, wherein -
said camera is located at the output of said image intensifier in order to record / photograph the intensified image.

7. (Original) The system for handling light that is amenable for intensification by an Image Intensifier according to claim 1, wherein -
said image sensor is a device of the ICCD type and is integrated in the image intensifier.

8. (Original) The system for handling light that is amenable for intensification by an Image Intensifier according to claim 1, wherein -
said image intensifier is endowed with a gating capability, hence it is capable of timing the light being reflected from a target that was illuminated using an auxiliary source, for receiving timed light reflections from said illuminated target.

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9. (Currently Amended) A passive night viewing system, that includes -

an image intensifier equipped with a photo sensitive area upon which the image that can be intensified is projected, and wherein the intensified image is being observed at ~~the~~its output of said image intensifier; and wherein

said passive night viewing system is characterized by the additional items that ~~it~~said system incorporates, namely -

a system for controlling light signals that can be intensified by said image intensifier, and that includes -

light regulating ~~means or~~ positioned at the focal plane of said light amenable for intensification at a location which is, however, before the photo sensitive area of said image intensifier; and

a ~~control and feedback~~ circuit that includes an image sensor, and wherein said image sensor detects the intensely bright light areas and an image processing ~~means or~~ that relates the intensely bright light areas that were detected using said image sensor to the respective areas of the light regulating ~~means or~~, in a manner that enables selective operation of the light regulating ~~means or~~ in said intensely bright light areas in order to influence the image being received at the output plane of said image intensifier, and wherein -

said system for controlling the light that can be intensified is characterized by that -

said light regulating ~~means or~~ constitutes a transmissive MEMS component.

10. (Currently Amended) A passive night viewing system in accordance with claim 9, wherein -

said light regulating ~~means or~~ constitutes a reflective MEMS component (instead of transmissive MEMS) and wherein said ~~control and feedback~~ circuit drives, in addition, the image intensifier to operate in a gating mode, so that said circuit ~~it~~ times the intensification of the light by said image intensifier to suit the specific time slot that was essentially completed, of deflecting the light ~~rays~~ emanating from the intensely bright light areas away from the photo sensitive surface area of said image intensifier.

11. (Cancelled)

12. (Cancelled)